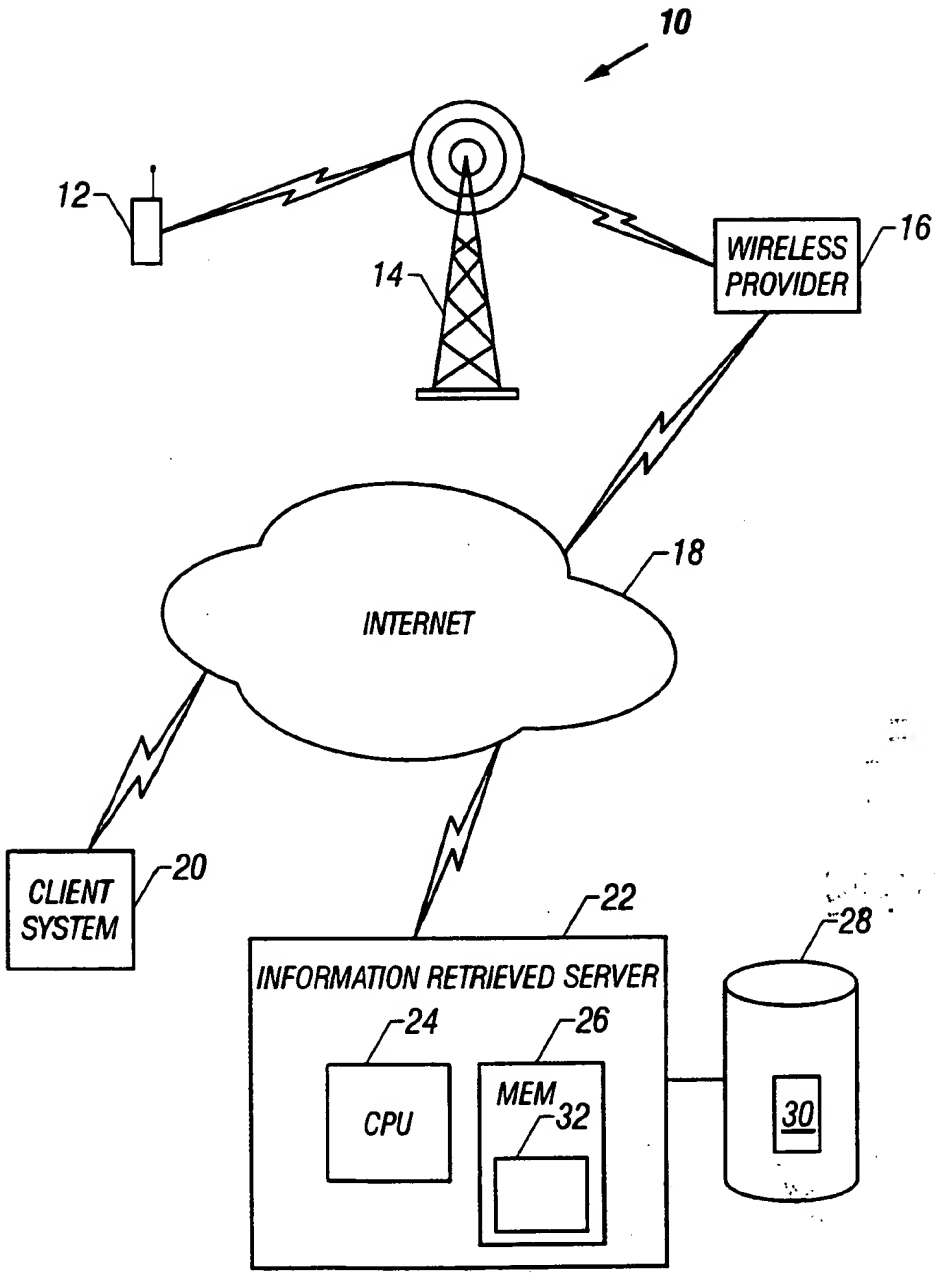
10
12
14
WIRELESS PROVIDER
16
18
INTERNET
CLIENT SYSTEM
20
22
INFORMATION RETRIEVED SERVER
24
CPU
26
MEM
32
28
30

FIG. 1

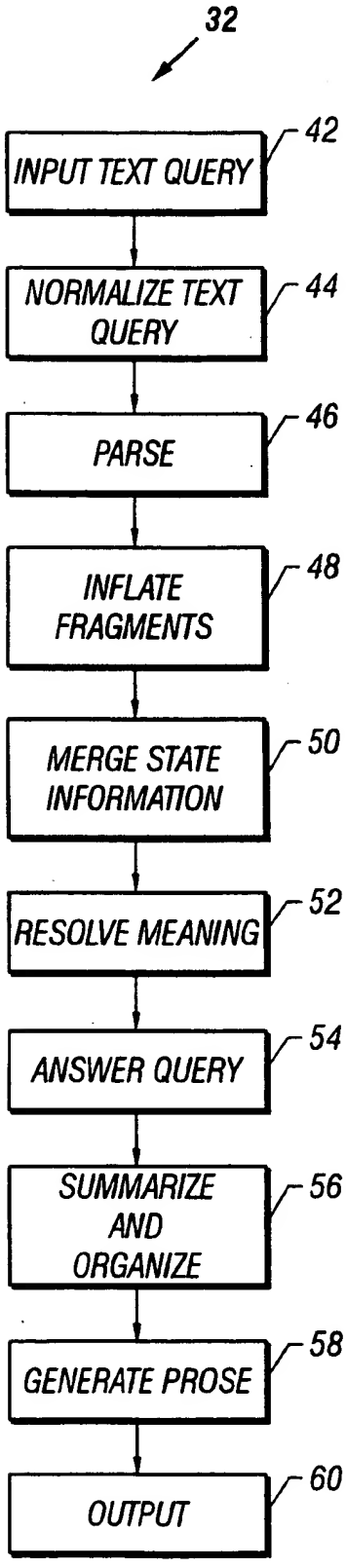
32
INPUT TEXT QUERY
42
NORMALIZE TEXT QUERY
44
PARSE
46
INFLATE FRAGMENTS
48
MERGE STATE INFORMATION
50
RESOLVE MEANING
52
ANSWER QUERY
54
SUMMARIZE AND ORGANIZE
56
GENERATE PROSE
58
OUTPUT
60

FIG. 2

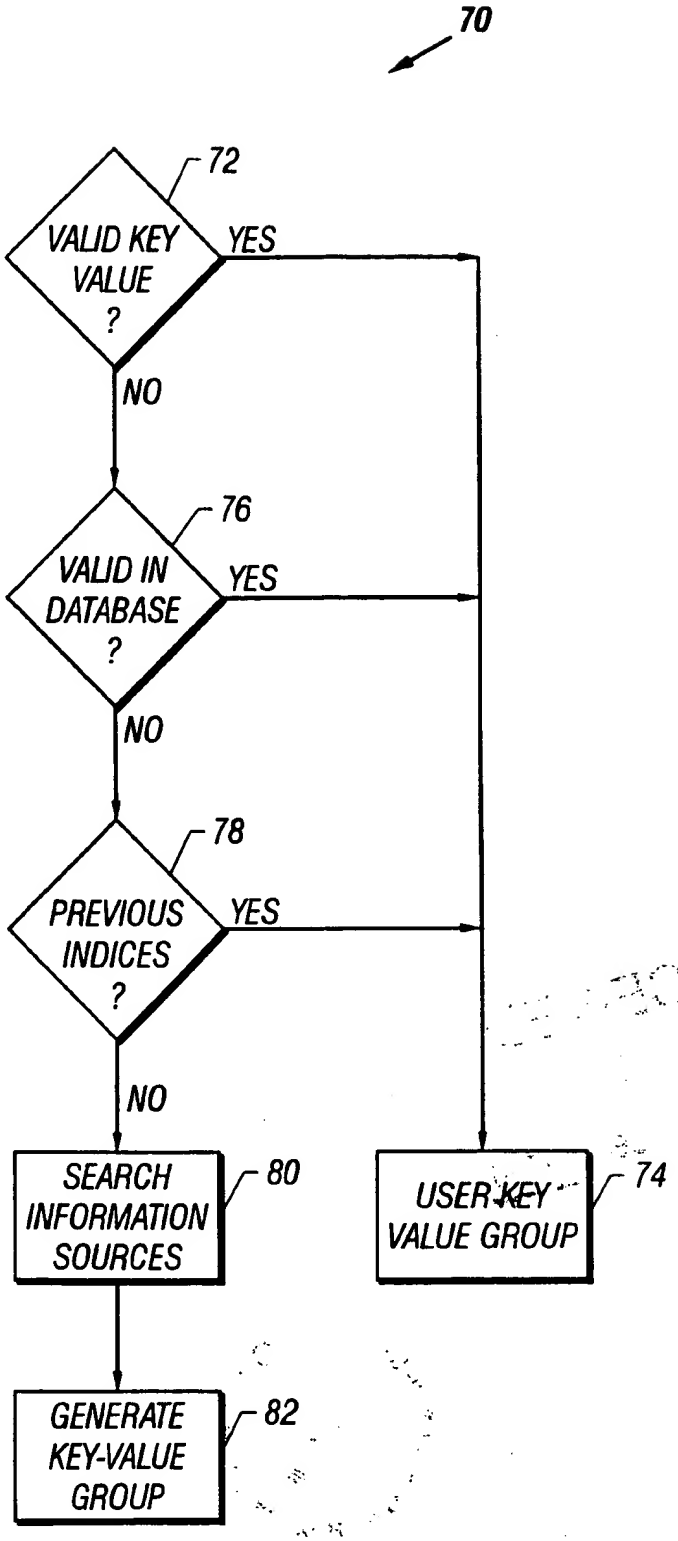
70
VALID KEY VALUE ?
72
YES
NO
VALID IN DATABASE ?
76
YES
NO
PREVIOUS INDICES ?
78
YES
NO
SEARCH INFORMATION SOURCES
80
GENERATE KEY-VALUE GROUP
82
USER KEY VALUE GROUP
74

FIG. 3

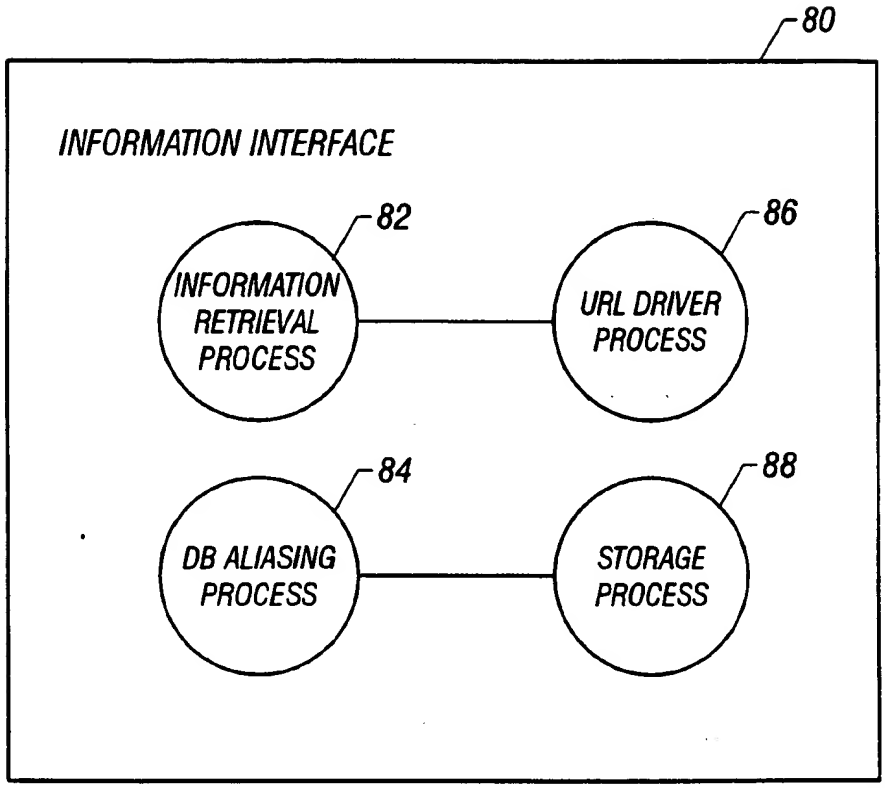
80
INFORMATION INTERFACE
82
INFORMATION RETRIEVAL PROCESS
86
URL DRIVER PROCESS
84
DB ALIASING PROCESS
88
STORAGE PROCESS

FIG. 4

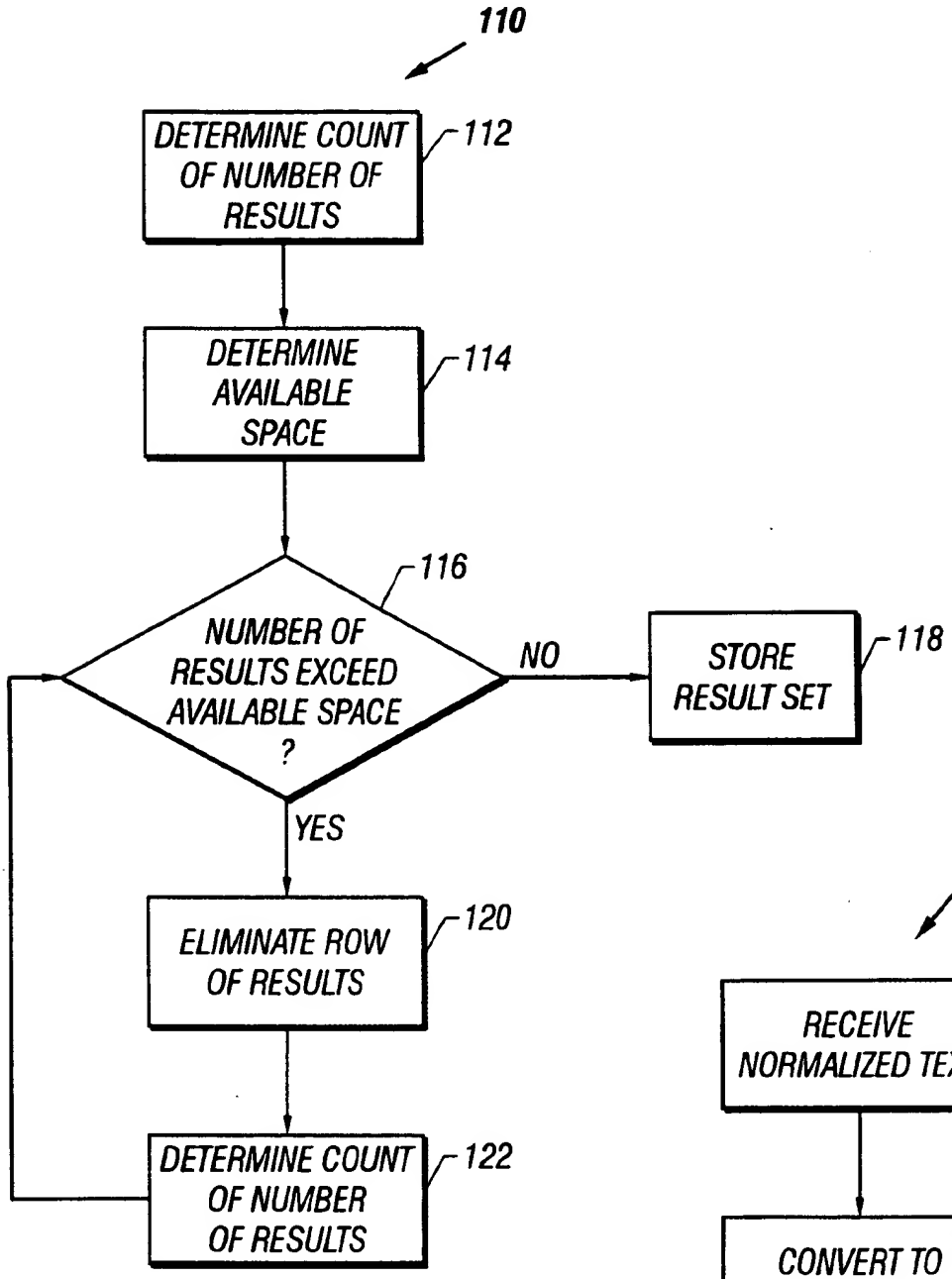
110
DETERMINE COUNT OF NUMBER OF RESULTS
112
DETERMINE AVAILABLE SPACE
114
116
NUMBER OF RESULTS EXCEED AVAILABLE SPACE ?
NO
STORE RESULT SET
118
YES
ELIMINATE ROW OF RESULTS
120
DETERMINE COUNT OF NUMBER OF RESULTS
122

FIG. 5

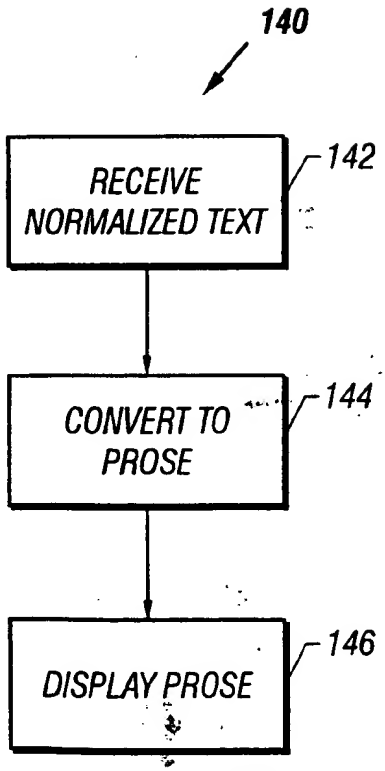
140
RECEIVE NORMALIZED TEXT
142
CONVERT TO PROSE
144
DISPLAY PROSE
146

FIG. 6

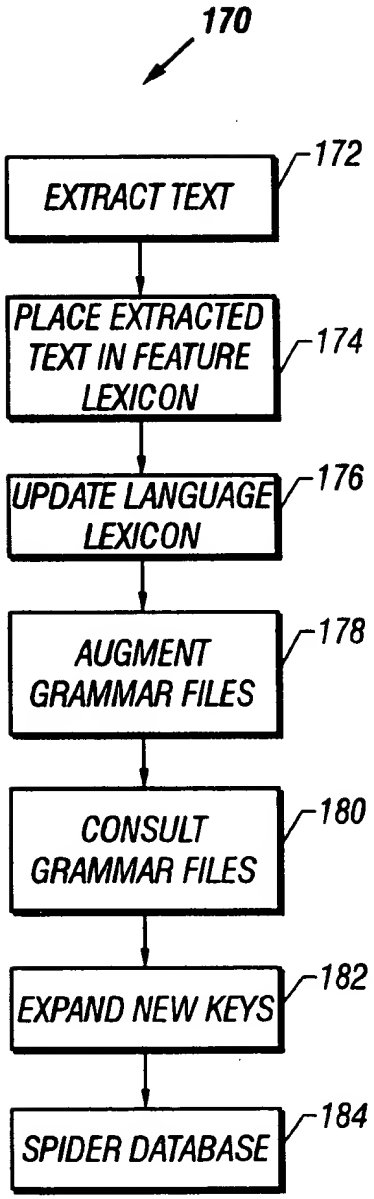
170
EXTRACT TEXT
172
PLACE EXTRACTED TEXT IN FEATURE LEXICON
174
UPDATE LANGUAGE LEXICON
176
AUGMENT GRAMMAR FILES
178
CONSULT GRAMMAR FILES
180
EXPAND NEW KEYS
182
SPIDER DATABASE
184

FIG. 7

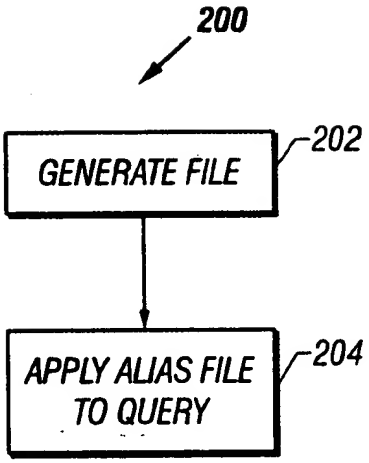
200
GENERATE FILE
202
APPLY ALIAS FILE TO QUERY
204

FIG. 8

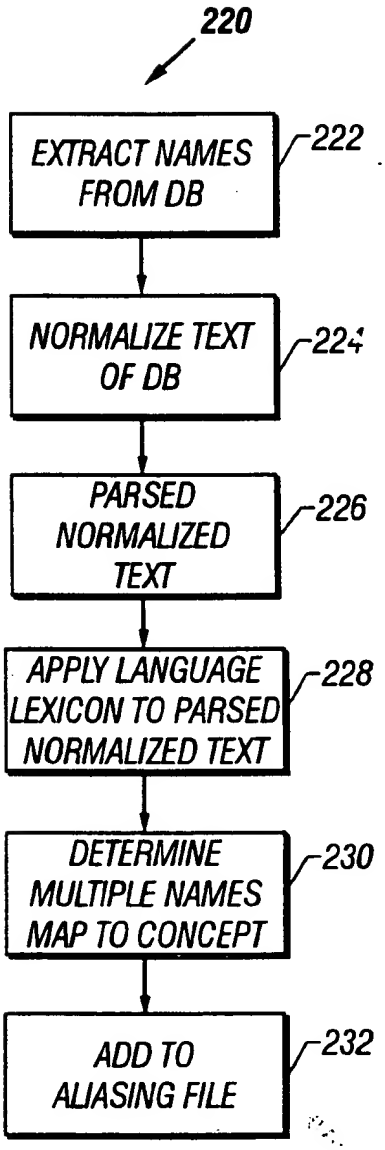
220
EXTRACT NAMES FROM DB
222
NORMALIZE TEXT OF DB
224
PARSED NORMALIZED TEXT
226
APPLY LANGUAGE LEXICON TO PARSED NORMALIZED TEXT
228
DETERMINE MULTIPLE NAMES MAP TO CONCEPT
230
ADD TO ALIASING FILE
232

FIG. 9

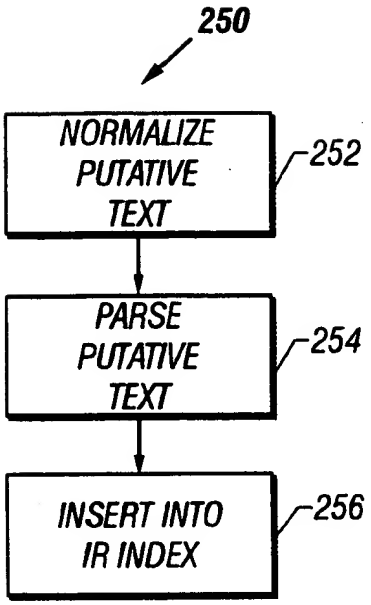
250
NORMALIZE PUTATIVE TEXT
252
PARSE PUTATIVE TEXT
254
INSERT INTO IR INDEX
256

FIG. 10